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## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

Claim 1 (currently amended):

A method comprising:

writing a first variable length packet to a first portion of a buffer via a first port of the buffer, wherein the first variable length packet is pre-rotated prior to the writing to align the first variable length packet with a previous packet under control of a write pointer signal; and

writing a second variable length packet to a second portion of the buffer <u>via a second port</u>
of the buffer while writing the first variable length packet, wherein the second variable length
packet is written without the pre-rotation; and

transmitting an output word from the buffer corresponding to one of the first and second variable length packets, wherein the output word has a fixed length.

Claim 2 (cancel)

Claim 3 (original): The method of claim 1, further comprising dynamically determining the location of the first portion based on a position of a previous packet and a size of the first variable length packet.

Claim 4 (original): The method of claim 1, further comprising padding the first variable length packet to form a first output packet.

Claim 5 (original): The method of claim 4, further comprising outputting the first output packet when a next variable length packet is received by the buffer.

Claim 6 (original): The method of claim 1, wherein the first portion is at any location of the buffer.

Claims 7 - 11 (cancel)

Claim 12 (currently amended): An apparatus comprising:

a <u>write decoder including a thermometer</u> decoder to set a packet size of a variable length packet, the <u>thermometer</u> decoder having n inputs <u>corresponding to a size of the variable length</u> <u>packet</u> and m outputs, the <u>thermometer</u> decoder to select how many of the m outputs are active based on the n inputs to set the size of the variable length packet, and a first shifter coupled to the <u>thermometer decoder to receive the m outputs and an address input and to determine an amount of rotation for the m outputs based on the address input; and</u>

a data array coupled to the write decoder to store the variable length packet under enablement by an output of the first shifter.

Claims 13 - 14 (cancel)

Claim 15 (currently amended): The apparatus of claim 13, further comprising a second shifter coupled to the data array to rotate the variable length packet prior to entry in the data array.

Claim 16 (currently amended): An article comprising a machine-readable storage medium containing instructions that if executed enable a system to:

write a first variable length packet to a first portion of a buffer via a first port of the buffer, wherein the first variable length packet is pre-rotated prior to the writing to align the first variable length packet with a previous packet under control of a write pointer signal; and

write a second variable length packet to a second portion of the buffer via a second port of the buffer while the first variable length packet is written, wherein the second variable length packet is written without the pre-rotation; and

transmit an output word from the buffer corresponding to one of the first and second variable length packets, wherein the output word has a fixed length.

Claim 17 (cancel)

Claim 18 (original): The article of claim 16, further comprising instructions that if executed enable the system to determine the location of the first portion based on a position of a previous packet and a size of the first variable length packet.

Claim 19 (original): The article of claim 18, wherein the location of the first portion may be at any location in the buffer.

Claim 20 (currently amended):

A system comprising:

a switch fabric; and

a storage buffer coupled to the switch fabric to store [[a]] at least two variable length packets in a data array, the storage buffer having a decoder to set a packet size of the variable length packets, the decoder including a thermometer decoder to set a packet size of the variable length packets, the thermometer decoder having n inputs corresponding to a size of one of the variable length packets and m outputs, the thermometer decoder to select how many of the m outputs are active based on the n inputs to set the size of the one of the variable length packets, and a first shifter coupled to the thermometer decoder to receive the m outputs and an address input and to determine an amount of rotation for the m outputs based on the address input.

Claim 21 (original): The system of claim 20, further comprising a media access controller coupled to the storage buffer.

Claim 22 (original): The system of claim 20, further comprising a system packet interface coupled between a network processor and the storage buffer.

Claim 23 (original): The system of claim 22, further comprising a system packet interface bus coupled between the network processor and the system packet interface.

Claims 24 - 25 (cancel)

Claim 26 (currently amended): The system of claim [[24]] 20, wherein m equals 2<sup>n</sup>-

Claims 27 - 30 (cancel)

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Claim 31 (new): The method of claim 1, further comprising writing the first and second variable length packets to a data array of the buffer, the data array including a plurality of elements, each of which may load data from either one of the first or second variable length packets.

Claim 32 (new): The apparatus of claim 12, wherein the data array includes a plurality of elements, each of which may load data from either one of the first or second variable length packets.

Claim 33 (new): The apparatus of claim 32, wherein the data array is to write a second variable length packet to a second portion of the buffer via a second port of the buffer while writing of the first variable length packet via a first port of the buffer, wherein the second variable length packet is written without the pre-rotation, and to transmit an output word from the buffer corresponding to one of the first and second variable length packets, wherein the output word has a fixed length.

Claim 34 (new): The system of claim 20, wherein the data array includes a plurality of elements, each of which may load data from a selected one of the variable length packets.

Claim 35 (new): The system of claim 34, wherein the data array is to write a second variable length packet to a second portion of the plurality of elements via a second port of the data array while a first variable length packet is written to a first portion of the plurality of elements via a first port of the data array, wherein the first variable length packet is to be prerotated prior to being written and the second variable length packet is written without the prerotation, and to transmit an output word from the data array corresponding to one of the first and second variable length packets, wherein the output word has a fixed length.